

PATIENT: Number 593

SEX: Female

AGE: 6

**Toxic & Essential Elements; Hair**

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	1.6	< 8.0	
Antimony (Sb)	0.016	< 0.066	
Arsenic (As)	0.061	< 0.060	
Barium (Ba)	0.51	< 1.5	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.023	< 2.0	
Cadmium (Cd)	0.022	< 0.070	
Lead (Pb)	0.26	< 0.80	
Mercury (Hg)	0.12	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.061	< 0.060	
Nickel (Ni)	0.03	< 0.30	
Silver (Ag)	0.03	< 0.18	
Tin (Sn)	0.17	< 0.30	
Titanium (Ti)	0.22	< 0.70	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>
Calcium (Ca)	584	250- 800	
Magnesium (Mg)	250	25- 90	
Sodium (Na)	6	18- 180	
Potassium (K)	< 3	10- 90	
Copper (Cu)	21	11- 37	
Zinc (Zn)	170	120- 220	
Manganese (Mn)	0.11	0.08- 0.60	
Chromium (Cr)	0.34	0.40- 0.65	
Vanadium (V)	0.014	0.025- 0.10	
Molybdenum (Mo)	0.037	0.030- 0.090	
Boron (B)	0.68	0.30- 1.7	
Iodine (I)	0.36	0.25- 1.3	
Lithium (Li)	< 0.004	0.007- 0.020	
Phosphorus (P)	134	150- 220	
Selenium (Se)	0.77	0.70- 1.1	
Strontium (Sr)	0.85	0.37- 3.6	
Sulfur (S)	44700	44000- 51000	
Cobalt (Co)	0.006	0.005- 0.035	
Iron (Fe)	6.0	7.0- 16	
Germanium (Ge)	0.030	0.030- 0.040	
Rubidium (Rb)	< 0.003	0.008- 0.080	
Zirconium (Zr)	0.035	0.030- 0.40	

SPECIMEN DATA		RATIOS		
<b>COMMENTS:</b>		ELEMENTS	RATIOS	RANGE
Date Collected: 1/13/2012	Sample Size: 0.2 g	Ca/Mg	2.34	4- 30
Date Received: 1/24/2012	Sample Type: Head	Ca/P	4.36	1- 12
Date Completed: 1/26/2012	Hair Color:	Na/K	2	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	8.1	4- 20
	Shampoo:	Zn/Cd	> 999	> 800

### Health history hair test 593

She is autistic /verbal but very delayed with behavioral issues and she is TWIN with the girl from test # 586(also autistic and apraxic) ..They were preemies and she was with lower weight (2lb 10 oz)

No dental work except a check-up and normal dental cleaning with a tooth brush and fluoride toothpaste (I know fluoride is bad but at the time I didn't know)

The mother had some ceramic(with metal underneath) crowns and other dental work during pregnancy (root canals)

All the vaccines up to 2 years of age (22 total) + one against tuberculosis in Europe

Methyl B-12 shots every 3 days which helps her a lot and she progressed a lot after starting on it

Biotin 30 mg daily

10 drops of GSE daily+ Oregano oil-3 drops

Vit.C 600 mg daily

Vit D-4000 IU daily

vit.A-12 000 IU daily

Vit E-200 IU daily

Vit B1-8 mg daily

Vit.B2-12 mg daily

Vit.B6-8mg daily

P5P-2 mg

Magnesium (oxide,citrate,glycinat) 250 mg daily

Zinc(citrate) 40 mg daily

Chromium(amino acid chelate)-120 mcg daily

Alpha Ketogl.Acid- 300 mg

Taurine-400 mg

Boron1.2 mg

Omega 3-6-9 1 tsp- total of 2600 mg of omegas daily

Probiotics-30 billion live bacterias /daily

4 months ago she was taking 1g of Chlorela /daily

She is 6 years old, 38 lb., 42 inches tall

We live in Philadelphia area (north-western part)-Ambler , PA, USA for the last 10 months..the previous year we lived in York PA,USA(for 1 year) and before that we lived in Bulgaria ,Europe for 2 1/2 years ..She was born in York ,PA and lived there for the first 2 years